623
U.S. COAST GUARD
623

PLATE NO. 1
COVER

BOOKLET OF GENERAL PLANS WMEC 623–STEADFAST

DWG. NO. 627WMEC–085–231

GENERAL DESCRIPTION

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 2

LIFE BOAT AND DAVIT DATA

ONE (1) 25'–8" SURFBOAT (STBD.) MOTOR DRIVEN
THE DESIGN PRESSURE FOR THE DAVIT SYSTEM (7000#/PR CAP.)
FOUR (4) TWENTY FIVE MAN INFLATABLE LIFE RAFTS
ONE (1) SIX METER RIGID HULL INFLATABLE BOAT W/OUTBD. MOTORS (PORT)
ONE (1) SINGLE POINT DAVIT CRANE W/CONTROL CONSOLE (5000# CAP.)

STEERING GEAR DATA

ELECTRO–HYDRAULIC FOR TWIN RUDDER APPLICATION
THE DESIGN PRESSURE FOR THE HYDRAULIC SYSTEM SHALL NOT EXCEED 2000 PSIG.

DEADWEIGHT DISPLACEMENT & LIGHTSHIP

LIGHTSHIP	822 LT (EST)
MINIMUM OPERATING CONDITION	1011 LT (EST)
FULL LOAD CONDITION	1070 LT (EST)

NOTE: FOR THE ABOVE INFORMATION REFER TO THE LATEST STABILITY TEST REPORT.

PROPELLER

NUMBER OF BLADES	4
DIAMETER IN FEET	7'–6"
WEIGHT, ESTIMATED	5120 LBS. EACH
WEIGHT, ESTIMATED W/SHAFTING	21,427 LBS.

ACCOMMODATIONS

	NORMAL
OFFICERS	12
CPO	7
CREW	66
TOTAL	86

REFRIGERATION PLANT

TWO (2) REFRIGERATION CONDENSING UNITS, WATER COOLED TYPE, APPROX. ONE (1) TON CAPACITY.

DECK MACHINERY DATA

ONE (1) ELECTRIC MOTOR DRIVEN WARPING CAPSTAN (2400# AT 110 FPM/ 7200# AT 37 FPM.
TWO (2) CAPSTAN WINDLESS–W/2800# STOCKLESS ANCHOR AND 105 FA OF 1 3/8" GI–LOK CHAIN, EACH (CAPSTAN–4000# AT 40 FPM.)

HOLD AND TANK CAPACITIES

TOTAL FUEL CAPACITY	48,881 GAL.
TOTAL FW CAPACITY	11,694 GAL.
TOTAL JP–5 FUEL CAPACITY	4,683 GAL.
TOTAL LUBE OIL CAPACITY	2,090 GAL.

GENERATING PLANT

TWO (2) 250 KW AT .8 POWER FACTOR DIESEL GENERATOR
3–PHASE, 60 CYCLE, 450 VOLT AC.

PRINCIPAL CHARACTERISTICS

LENGTH OVERALL	210'–6"
LENGTH ON DESIGN WATERLINE	200'–0"
BEAM, EXTREME MOLDED	34'–0"
DEPTH MOLDED, MAIN DECK AT MIDSHIPS	19'–6"
DESIGN DRAFT, MAXIMUM	15'–6"
HIGHEST PROJECTION ABOVE KEEL MIDSHIPS	87'–0"

ARMAMENT

INSTALLED
ONE (1) 25 MM GUN MK 38 MODEL
TWO (2) 50 CAL. MACHINE GUNS

EQUIPMENT

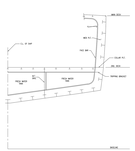
TWO (2) 500 LB. PORTABLE DAVITS.
ONE (1) 1500 LB. PORTABLE DAVIT.

POWER PLANT AND SPEED

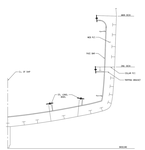
DIESEL ENGINES TWO (2)	2500 H.P. EACH
SHAFT HORSEPOWER (TOTAL)	5000 H.P.
SUSTAINED SPEED	18 KNOTS

GENERAL DESCRIPTION
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: NONE

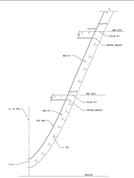
DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 3



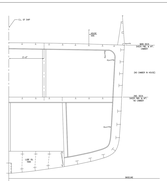
SIDE FRAME 180 AFT



SIDE FRAME 148 AFT



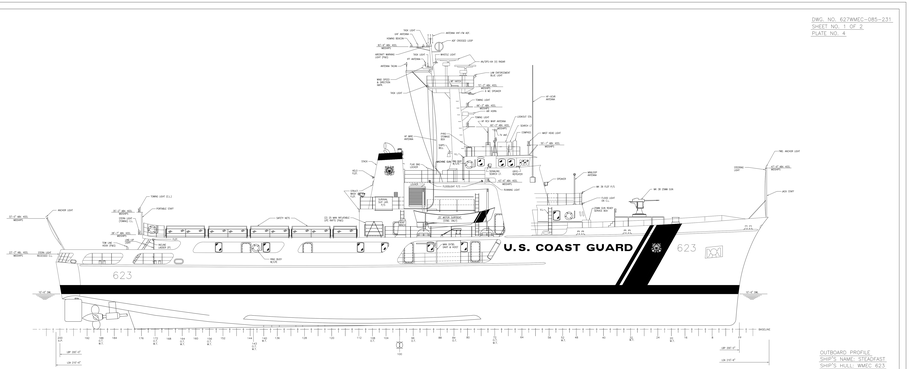
SIDE FRAME 26 FWD



SECTION AT FRAME 102

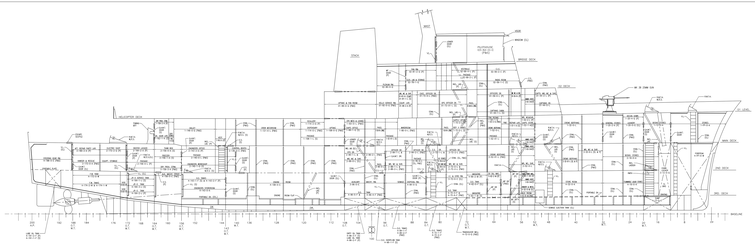
TYPICAL SECTIONS
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/4"=1'–0"

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 4



OUTBOARD PROFILE
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'–0"

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 5

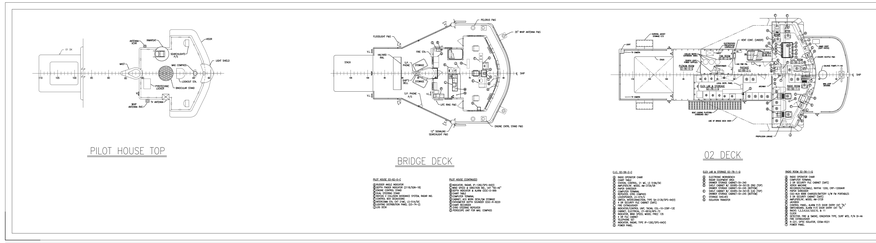


INBOARD PROFILE
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'–0"

REVISIONS						
REV	SHT	ZONE	DESCRIPTION	BY	DATE	APRVD
A	1	ALL	ADDED APPLICABILITY AND UPDATED TITLE BLOCK AIM 210 PARENT SERIES.	MD	8/28/99	TGB

PLAN DISTRIBUTION

	DATE RECEIVED
HEADQTRS. DEPT.	
OPERATIONAL DEPTS.	
1/1	
1/2	
1/3	
1/4	
TECHNICAL DEPTS.	
2/1	
2/2	
2/3	
2/4	
TECHNICAL DEPTS.	
3/1	
3/2	
3/3	
3/4	
FIELD DEPTS.	
4/1	
4/2	
4/3	
4/4	
YARD DEPT.	
5/1	
5/2	
5/3	
5/4	
SHIP'S CREW	
6/1	
6/2	
6/3	
6/4	
SHIP'S CREW	
7/1	
7/2	
7/3	
7/4	
SHIP'S CREW	



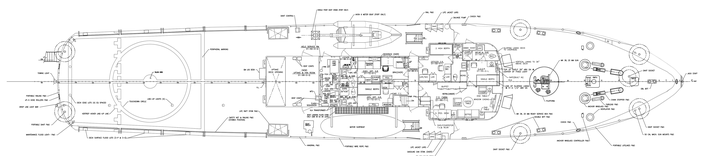
PILOT HOUSE TOP

BRIDGE DECK

02 DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 10

02 DECK & ABOVE
SHIP'S NAME: STEADFAST
SHIP'S HULL NMEC 623
SCALE: 1/8"=1'-0"



01 DECK

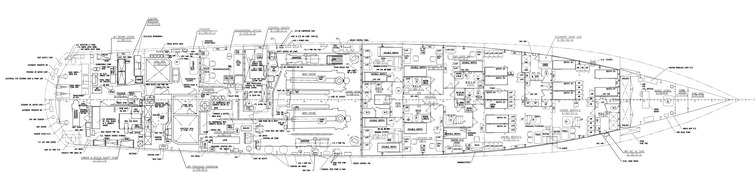
DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 9

01 DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL NMEC 623
SCALE: 1/8"=1'-0"

MAIN DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 8

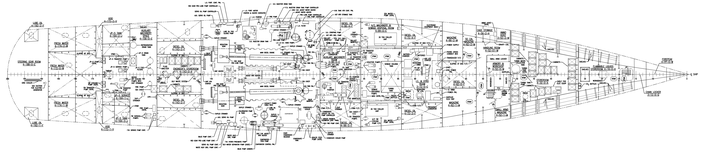
MAIN DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL NMEC 623
SCALE: 1/8"=1'-0"



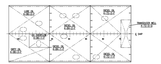
SECOND DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 7

SECOND DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL NMEC 623
SCALE: 1/8"=1'-0"



THIRD DECK



TANKS BELOW THIRD DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 6

THIRD DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL NMEC 623
SCALE: 1/8"=1'-0"

U.S. COAST GUARD HEADQUARTERS WASHINGTON, D.C. 20593
OFFICE OF NAVAL ENGINEERING
210 MMA
"B" CLASS
BOOKLET OF
GENERAL PLANS

SIZE	ITEM CODE NO.	MSGL DRAWING NO.	REV
H	81340	627WMEC-085-231	A
SCALE AS NOTED		10 SQ FT	SHEET 2 OF 2

PLOT SCALE: 1.5"=1'-0"

FILE CODE: 627-WMEC_85_231_2_A.DWG